POWER PRO
1100

USER'S MANUAL

MARUSON®
UPS SYSTEMS

1 Inspection

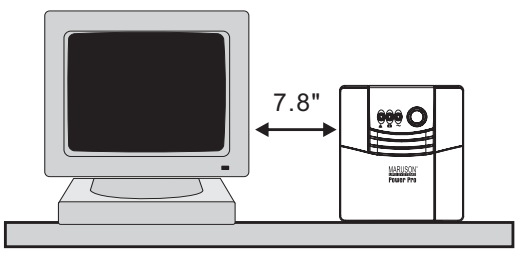
The following items are inside the box:

- User's Manual
- Power Cord
- USB Cable
- Warranty Card
- UPS
- RJ11 Cable
- Software CD
- Equipment Protection Policy

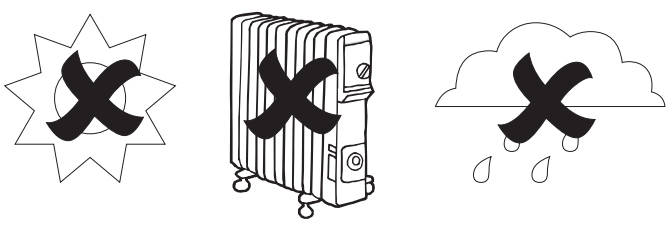
Remove Power Pro UPS from its package and inspect it for damage.
If any damage is discovered, re-pack the unit and return it to the place of purchase.

2 Place the UPS

Provide 7.8 inch clearance on sides for adequate airflow around the unit when placing beside a monitor.

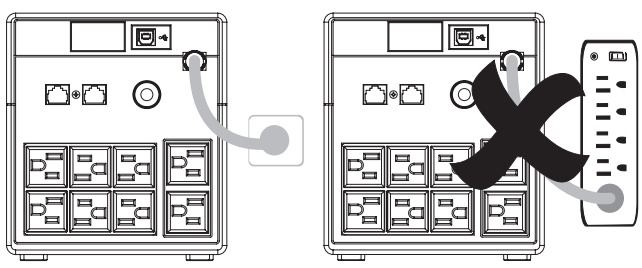


- Avoid direct sunlight.
- Avoid excessive heat.
- Avoid excessive humidity or liquids.
- Avoid excessive dust.

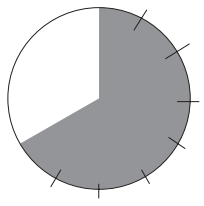


3 Connect UPS to Utility

Use the power cord that came with your UPS to connect the UPS directly to the wall outlet.
Do not power the UPS using a surge suppressor or power strip.



Battery Charging:
The UPS battery charges whenever the UPS is connected to utility power and typically requires less than eight hours to charge fully. Operating runtime is reduced until the battery is fully charged.



8 hours

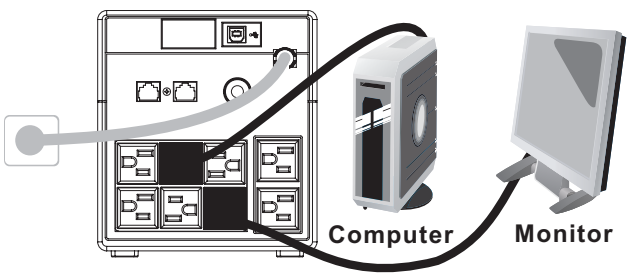
4 Connecting Equipment to UPS

Connect the equipment to Battery Power Supplied outlets.

Battery Power Supplied Outlets (6)

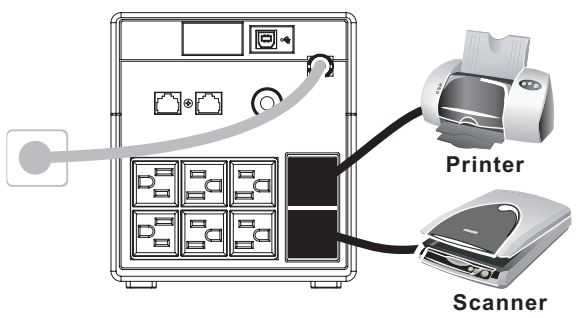
Connect computer, monitor, and external drive to the "Battery Power Supplied" outlets. These outlets provide battery backup, EMI filtering, line conditioning, and surge protection. Battery power is automatically provided in case of power failure.

Beware of the Power Switch it must be kept in the "ON" position, otherwise, the UPS will be disabled and your equipment will not be protected during a power failure.



Full Time Surge Protection Outlets (2)

Connect a printer fax machine, or scanner to the "Full Time Surge Protected Outlets". Both outlets do not provide power during power failure.



CAUTION: DO NOT connect a printer to any Battery Power Supplied outlet.

5 Connect Modem/Phoneline/ Network

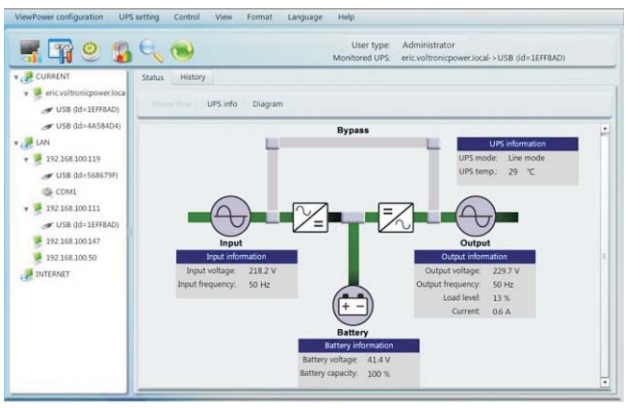
Power Pro UPS protects a single line (1 in/1out) phone, modem, or fax machine from surges when connected through the UPS. Plug in conning Internet line into the "IN" socket.

Use one more Internet line cable in the "OUT" socket and plug one other end to the modem input socket.

6 Connect UPS to Computer

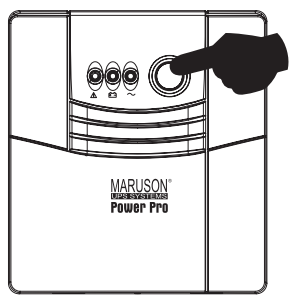
Connect one end of the USB cable to PC and the other to the USB port at the rear of the UPS. Insert ViewPower software CD or download the latest version of ViewPower software from http://www.power-software-download.com to your hard drive. Follow on-screen instructions to complete the software installation.

Once PC is restarted, ViewPower is geared and presents as an orange plug icon located in the system tray at the right-bottom corner.



7 Turn On/Off

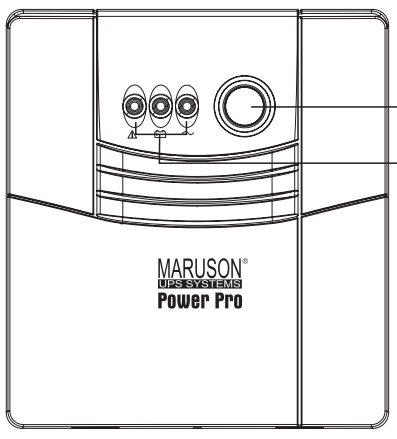
To turn on the UPS unit, press the power On/Off Switch once. To turn off the UPS unit, press the Power On/Off Switch again.



8 Storage

To store the UPS for an extended period, cover it and store with battery fully charged. While in storage, recharge the battery every 3 months to secure battery life.

UPS Indicators and Controls



Power Switch

Press and release the button to supply power to the Battery Power Supplied Outlets. Press and release the button again to switch off power to the Battery Power Supplied Outlets.

AC Mode Indicator

This green LED is lit when the UPS transfers utility power to both Battery Power Supplied Outlets and Full Time Surge Protection Outlets.

Battery Mode Indicator

This yellow LED flashes when the utility power is outside acceptable limits and the battery supplies power only through the Battery Power Supplied Outlets.

Battery Mode: sounding every 10 seconds
Low Battery: sounding every second
Battery Replacement: sounding every 2 seconds

Fault/Low Battery/Battery Replacement Indicator

This red LED is lit whenever the UPS fails, low battery occurs, or battery is close to the end of its useful life. The battery should be replaced with UPS switched off.

Overload: sounding every 0.5 second
Fault: continuously sounding

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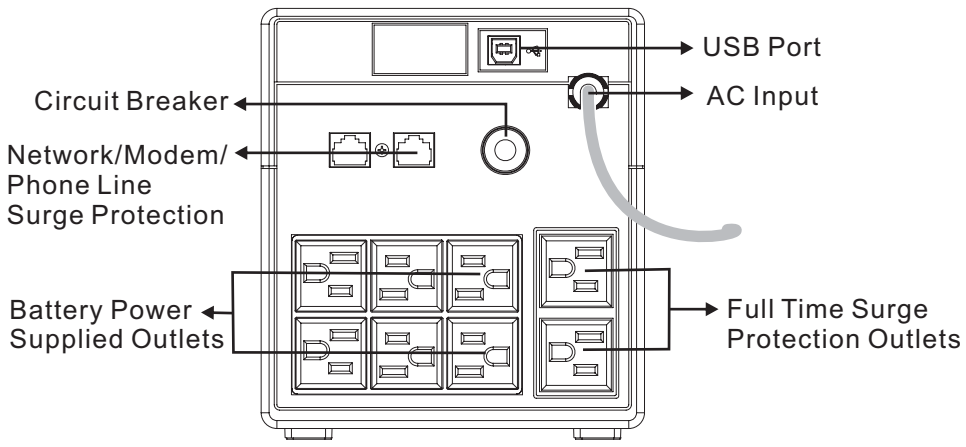
Panel Information



Safety Caution

SAVE THESE INSTRUCTIONS-This manual contains important instructions for models PRO-1100AVR that should be followed during installation and maintenance of the UPS and batteries.

- This UPS utilizes voltage that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user replaceable parts. Only factory service personnel may perform repairs.
- Internal battery voltage is 12Vdc. Sealed, lead-acid, 6 cells battery.
- Connection to any other type of receptacle other than a two-pole, three-wire grounded receptacle may result in shock hazard as well as violate local electrical codes.
- In the event of an emergency, press the "OFF" button and disconnect the power cord from the AC power supply to properly disable the UPS.
- Do not allow any liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
- This unit is intended installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is standing or running water, or excessive humidity.
- Do not plug the UPS input into its own output.
- Do not attach a power strip or surge suppressor to the UPS.
- Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.
- To reduce the risk of overheating the UPS, do not cover the UPS' cooling vents and avoid exposing the unit to direct sunlight or installing the unit near heat emitting appliances such as space heater or furnaces.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
- Do not open or mutilate the battery or batteries. Release electrolyte is harmful to the skin and eyes. It may be toxic.
- A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:

  1) Remove watches, rings, or other metal objects from the hands.
  2) Use tools with insulated handles.
  3) Wear rubber gloves and boots.
  4) Do not lay tools or metal parts on top of batteries.
  5) Disconnect charging source prior to connecting or disconnecting batteries terminal.

- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.
- When replacing batteries, replace with the same number and type of sealed lead-acid battery. The maximum ambient temperature rating is 40℃.
- During the installation of this equipment it should be assured that the sum of the leakage currents of the UPS and the connected loads does not exceed 3.5mA.
- This pluggable type A equipment with battery already installed by the supplier is operator installable and may be operated by laymen.
- Attention, hazardous through electric shock. Also with disconnection of this unit from the mains, hazardous voltage still may be accessible through supply from battery. The battery supply should be therefore disconnected in the plus and minus pole of the battery when maintenance or service work inside the UPS is necessary.
- The mains socket outlet that supplies the UPS shall be installed near the UPS and shall be easily accessible.

Battery Recycling Information
UPS contains non-spillable sealed Lead Acid batteries. On the battery, you will the battery name. Please refer to the chart below for recycling information or contact your local distributor for assistance.

Battery Name	Recycling inside the USA	Recycling outside the USA
RITAR Battery	(800) 273-8599	N/A

Trouble Shooting

Problem	Possible Cause	Solution
No LED display on the front panel.	Low battery.	Charge battery up to 8 hours.
	Battery fault.	Replace with the same type of battery.
	UPS is not turned on.	Press the power switch again.
Alarm buzzer beeps continuously when AC supply is normal.	UPS is overloaded.	Verify that the load matches the UPS capability specified in the specs.
When power failure, backup time is short.	Overload of the UPS.	Remove some noncritical load.
	Battery voltage is too low.	Charge battery 8 hours or more.
	Battery defect .	Replace with the same type of battery.
Comm unication lost betwee n UPS and compu ter.	Software is not installed properly.	Check the setting of the software.
	Cable is not firmly connected.	Check the USB cable is firmly connected to the computer and confirm the setting again.
Mains normal but yellow LED brinks.	Breaker trips.	Reset the breaker.
	Power cord is loose.	Reconnect the power cord properly.

If any abnormal situations occur that are not listed above, please call for service immediately.

Specification

MODEL		PRO-1100AVR
CAPACITY	VA/W	1100VA/600 W
INPUT	Voltage	110/120VAC or 220/230/240VAC
	Voltage Range	81-145VAC or 162-290VAC
	Frequency	50/60Hz (Auto Sensing)
OUTPUT	Frequency Regulation (Batt. Mode)	50Hz or 60Hz +/-1Hz
	Output Waveform	Simulated sine wave
BATTERY	Battery Type	12V7Ah x 2
	Back up Time	Up to 40 minutes
	Recharge Time	8 Hours to 90% after complete discharge
TRANSFER TIME		4-6ms (Typical)
PROTECTION	AC Surge Protection	Full time, 750 joules
	Phone/fax/DSL/Network Surge Protection	RJ11/RJ45(One In One Out)
	EMI/RFI Filter	Full time
	AC Input	Circuit breaker
	Full Protection	Overcharge and Overload Protection
PHYSICAL	Dimension DxWxH	350 x 146 x 160mm 13.8 x 5.7 x 6.3 in
	Net Weight	8.0kgs / 21.16lbs
ENVIRONMENT	Operating Environment	0- 40°C, 0-90 % Relative Humidity (non-condensing)
	Noise Level	Less than 45dB
INTERFACE	USB	Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC

Specification change without notice.

Product Warranty and Service Information:
For U.S. customers, please register your product at www.MarusonUSA.com. For international customers, please contact your local authorized distributor or e-mail CustSrv@MarusonUSA.com for assistance.

MARUSON®
TECHNOLOGY CORP.

Maruson Technology Corporation
18557 E.GALE AVE. CITY OF INDUSTY,CA 91748
P.O. Box 1986 Walnut, CA 91788, USA
Toll Free: 1-888-MARUSON
TEL: +1-626-912-8388
FAX: +1-626-912-8680
E-mail: Custsrv@MarusonUSA.com
Web Site: www.MarusonUSA.com